SB 656 Workshop

Measures to Reduce Particulate Matter

May 6, 2004 Sacramento, California

Workshop Outline

- Legislation requirements
- PM standards and attainment status
- Development of lists and their use
 - ARB lists
 - Air district list
- Next steps

SB 656 Requirements

- By January 1, 2005: ARB, in consultation with air districts, must develop and adopt a list of measures for reducing PM
- By July 31, 2005: ARB and air districts must adopt implementation schedules for appropriate measures
- By January 1, 2009: ARB must prepare a report describing actions taken
- January 1, 2011: Legislation sunsets, unless renewed

Scope of PM Problem

- PM includes:
 - PM10 and PM2.5
 - Directly emitted and secondary (precursor species NOx, SOx, ROG, ammonia)
- Most of California is nonattainment for State PM10 standards and all major urban areas exceed the State PM2.5 standard
- Variations in severity and number of exceedances, seasonality, sources

State and Federal Particulate Matter Standards

	California (μg/m³)	Federal (μg/m³)
PM ₁₀ Annual	20	50
24-hour	50	150
PM _{2.5} Annual	12	15
24-hour	under	65
	review	

Attainment of California's new standards will annually avoid:

- 2,600 premature deaths
- 7,900 cases of chronic bronchitis in children
- Thousands of cardiovascular and respiratory disease hospitalizations
- 570,000 lost work days

Federal PM10 Designations



4 of these nonattainment areas now meet federal PM10 standards

- Sacramento County
- Mammoth Lakes
- 2 Areas in Searles Valley
- Portion of San Bernardino County



Expected Federal PM2.5 Designations



Nonattainment Area	Design Value (ug/m³) 24-hour Annual (Std. is 65) (Std. is 15.0)	
San Joaquin Valley	90	23.2
South Coast	73	28.9
City of Calexico	50	15.6
San Diego	43	16.4





List Preparation

- Most readily available, feasible, costeffective measures in place as of January 1, 2004
- ARB and air district measure lists
- Measures for directly emitted PM and precursor species

ARB List

- Two part list:
 - Measures adopted through January 1, 2004
 - Future measures and implementation schedule for Board consideration
 - Diesel Risk Reduction Program
 - State and Federal Strategy
- Focus on mobile sources and fuels, consumer products, diesel risk reduction measures

ARB List Categories

- Diesel-fueled Engines and Vehicles
- Smoke Management Program
- Non-Diesel Mobile Sources
- Non-Diesel Fuels
- Consumer Products
- Vapor Recovery
- Distributed Generation

Air District List

- All measures adopted prior to January 1, 2004 eligible
- Screening based on level of stringency
- Focus on stationary and area sources, incentive programs, and fleet rules (where applicable)

Air District List Categories

- Residential Wood Combustion
- Non-Agricultural Open Burning
- Fugitive Dust
- Stationary and Area Sources
 - Combustion
 - Product Manufacturing
 - Coating Operations
 - Leaks and Storage
- Fleet Rules
- Incentive Programs

Use of Air District List

- Select appropriate <u>subset</u> of measures:
 - Based on nature and severity of PM problem
 - Consider cost-effectiveness and feasibility for individual air district
 - Harmonize with ongoing regulatory efforts

Next Steps

- Seeking input on draft lists
- Request comments by May 31, 2004
- Issue staff report and revised lists for Board consideration
- Presentation at July 2004 Board meeting
- Update Statewide PM Characterization

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